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ABSTRACT

The use of telecommunications and satellite technology in external studies programs at colleges and universities in Western Australia is described, and statistics on programs and courses available in the external mode are provided. Reports on new teaching developments are provided for the following institutions: Murdoch University; the University of Western Australia; the Western Australian Institute of Technology; the Western Australian College of Advanced Education; the Technical Extension Service; and the regional colleges (Hedland College; Kalgoorlie College; and Karratha College). Important organizational and operational developments are noted, including plans for a national interinstitutional telecommunications network, operational trials of FM subcarrier technology for distance education, and teleconferencing sessions on distance education issues. Data are provided by institution on: student enrollments by age and mode of study; enrollments by address of home location and mode of study; and enrollments by mode and field of study. For each institution and field of study, information is presented on courses that are available externally. (SW)

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EXTERNAL STUDIES 1984

Part 1

General Information

Second Annual Report of the External Studies Review Group

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Western Australian Post Secondary Education Commission

- EXTERNAL STUDIES REPORT 1984 -

Part 1

GENERAL INFORMATION

Second Annual Report of the External Studies Review Group

NOTE: Statistical information and details of courses available in the external mode are provided in Part 2 of the Report.

August 1985

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INTRODUCTION

The External Studies Review Group has agreed that its annual reports, as well as outlining developments in external studies during the year, should focus on a particular area of interest. The focus in this, the second annual report, is on telecommunications and satellite technology. Subsequent reports will focus on issues such as credit transfer and the role of the regional colleges with respect to external studies.

External studies in award courses are provided by four institutions in Western Australia: Murdoch University, the Western Australian Institute of Technology, the Western Australian College of Advanced Education and the Technical Extension Service of the Technical Education Division. The University of Western Australia does not offer external studies but has transfer arrangements with Murdoch University for students wishing to use this mode of study.

The provision of external studies is supported throughout the State by regional colleges at various country centres. These colleges offer a number of services to students resident in their areas, who are enrolled as external students elsewhere. These colleges also offer some advanced education courses through contracting arrangements with metropolitan institutions for students who live in their regions and who prefer this as an alternative to studying in the external mode.

The External Studies Review Group is aware of the recent WAPSEC report on credit transfer and will be considering its implications for external studies during the coming year.

Members hope that the comments contained in this report will be of use to both the Western Australian Post Secondary Education Commission (WAPSEC) and the Commonwealth Tertiary Education Commission (CTEC) in planning for the provision of external studies in WA and throughout Australia.

NEW TEACHING DEVELOPMENTS

Murdoch University

The "integrated" model of two-mode teaching adopted at Murdoch University is based upon the objective of providing all students with the same courses taught to the same standards by the same academic staff, whether taken "on" or "off" campus. This basic principle not only ensures academic parity but also facilitates students' movement between the "internal" and "external" modes as their individual circumstances demand. In order to ensure this flexibility, the University must develop and maintain a wide range of course units in the external mode so as to enable students to proceed right through to graduation by distance education, rather than being required to move to on-campus study to complete their higher level course units. Provision of full degree courses, or programs, entirely in the external mode has been a critical factor in establishing external study at Murdoch as a viable alternative rather than merely a substitute form of tertiary educational provision. As long as course delivery is confined to mailed print and audio-visual materials, a wide range of course offerings is quite appropriate. As and when the use of broadcast media, and more particularly, television, is contemplated, the obvious lack of economies of scale in individual course units presents a severe constraint. One of the major challenges facing the University is therefore to find ways of enhancing students' learning at a distance by increasing the use of communications technologies, whilst avoiding the severe cost penalties involved in the production and transmission of external course materials through the "big media".

As foreshadowed in the 1983 report, Murdoch University has introduced two new undergraduate programs and three graduate diplomas in 1984 with a very economical net increase of only 15 course units.

Emphasis has been placed on encouraging the production of course units which serve the needs of more than one award program and on reinforcing systems for rotating the presentation of pairs of complementary course units between alternate years.

There has been considerable interest in assessing and trialing applications of new communications technologies. Initial steps have been taken to establish "dialup" facilities through which off-campus students may access the University's mainframe computer to enhance the versatility of loaned or self-owned micro-computers. Video cassettes were introduced

on a limited basis. Staff of the School of Social Inquiry, Educational Services and Teaching Resources and the External Studies Unit were also heavily involved in the development and implementation of the first Australian operational trials of FM radio sub-carrier 'narrowcasting' through 6UVS (FM) Universities Radio Ltd. (Further details are included in the section of this report devoted to Telecommunications and Satellite Technology).

In 1985 Murdoch University will introduce both undergraduate degree and postgraduate diploma programs in Computing for completion in both the internal and external modes. The existing master's degree by coursework in Literature and Communication will be complemented by the introduction of a bachelor's degree in Literature and Communication in the external mode only. A major innovation in 1985 is an undergraduate degree program in Women's Studies through which students will be able to complete a Murdoch degree including core courses taken from both Queensland and Deakin Universities by distance education.

Murdoch is currently involved in discussions with the four other major providers of University external studies with the object of building on the base established in Womens Studies so as to provide for and to encourage wider inter-University enrolment in the external mode.

University of Western Australia

University Extension offers four large and comprehensive community education programs each year including the University of Western Australia's Annual Summer School. Staff from Murdoch University and the Western Australian Institute of Technology provided a significant contribution to the success and diversity of the community course provision. In addition, University Extension provides professional and administrative support for the development of continuing education programs for University faculties and departments and training and development courses for other external agencies.

Off-campus community courses were offered at Geraldton and Wanneroo and the Canning Vale Prisons complex and in 1984, for the first time, nine non-award courses were offered in the external mode in University Extension's Spring Community Education program:

Practising Academic Skills Successfully

Australian Political Systems

Women in Australian Society

Soil Conservation

The Young Handicapped Child

Accounting 1

Marketing Techniques: An Introduction to Decision Making in Marketing

Understanding Economics

Social Issues in Modern Drama

These courses were franchised from the Darling Downs Institute of Advanced Education and enrolments have been sufficiently encouraging to warrant the continuation of this initiative in 1985.

A print-supported community course, "The First Years of Life" was presented through 6UVS (FM) Universities Radio Ltd. and in collaboration with Murdoch University during the latter's Australian operational trials of FM sub-carrier technology.

University Extension continued its involvement with satellite communications through the "University uses of satellites" project conducted by Dr James Lange, postdoctoral research fellow from the University of Guam. Regular consultation, and a weekly teleconference via University Extension's ATS-1 satellite maintained contact with educators and administrators throughout Australia, New Zealand and the Pacific basin nations, and with other user groups such as the Royal Flying Doctor Service, Aboriginal communities and emergency services. The results of these activities and research have led to a preliminary cost/benefit analysis of telecommunications networks for Australian education which will be presented as a final report of the "University uses of satellites" project. (See the section on Telecommunications and Satellite Technology for further details of FM sub-carrier and telecommunications developments).

The Western Australian Institute of Technology

In 1984 external studies at WAIT was opened to all students, whereas previously only disadvantaged students had been able to study externally. All students may now elect to study externally if the unit of study is available in the external mode. No great increase in numbers was experienced in 1984. However, this change in policy is expected to have an effect on numbers for 1985.

The number of units to be offered in 1985 has increased to 330. Many units have been reviewed throughout 1984 with special attention being given to first year units in Social Sciences. New units in the Bachelor of Applied Science (Library & Information Studies), Bachelor of Applied Science (Nursing) and Bachelor of Business degrees will be available in 1985.

The review of and improvement of quality in existing course materials is to be a priority for 1985. The review is to concentrate on both content and presentation of course materials.

After twelve years' service, November 30, 1984 saw the retirement of the Head of the Department, Mr George Idle. His replacement, Dr John Walsh, has been a long-time WAIT staff member holding various academic and administrative positions. Dr Walsh sees his role within the Department as one of consolidation of existing work by updating of material, of extension of offerings, of introduction of the satellite as a means of communicating with external students and finally of research to establish an even better knowledge of the needs of external students.

Several staffing changes within the Department are not expected to alter the Department's already proven efficient operations.

Country centres have played a large role in external studies in recent years and the continued support of the staff in these centres is greatly appreciated. Greater liaison with country centres is expected from 1985, with academic and administrative staff from WAIT visiting more frequently to assist and guide both staff and students in country centres.

Research is currently being undertaken to improve facilities for students, with the possibility of students being able to access information from both the Robertson Library and Computing Centre direct.

Interactive tutorial sessions with country students using the ATS-1 satellite have proved beneficial to both staff and students. It is planned to continue these sessions and, where possible, increase participation in 1985.

A pilot program operating between Bentley and Bunbury using the Excom 100 (Cyclops) will commence in March, extending our participation in technology to computers. The Excom 100 was purchased with the aim of assisting in visual work, with both lecturer and students being able to type or draw simultaneously. The Excom 100 has many possibilities, not only for external studies but also for other departments on the WAIT campus.

WAIT will continue to explore the development and applications of these new systems to improve opportunities for external studies.

During the year WAIT enrolled 192 Extension Students in a wide range of units covering the various Schools of the Institute. This included students undertaking short refresher courses in a particular profession, as well as those studying for personal development and cultural enrichment. These enrolments extended across the whole State.

Western Australian College of Advanced Education

The Extension Service of the WA College has continued to serve as the centre of all off-campus instruction for students studying in the external mode as well as offering a wide range of community-oriented courses and activities which are self-supporting.

The external studies component of the Extension Service offered eleven courses in 1984, nine of which were available fully in the external mode. Approximately 220 discrete units were available to in excess of 1500 students who were enrolled at some time during the year.

The Extension Service has had a major task in 1984 revising existing units and preparing for the influx of a large number of units to be offered for the first time in 1985 consequent upon the restructuring of teacher education courses by the College. Furthermore, a new course at the associate diploma (UG3) level was mounted in the area of Community Languages in Portuguese and Vietnamese. This course is unique in Australia and has been well received by students studying externally.

The enclave in Broome, which caters mainly for Aboriginal students who wish to train as teachers, has continued to flourish with further Diploma of Teaching units being prepared. The College is also involved with an extension of this project at Carnarvon in 1985.

In the last quarter of the year, the Extension Service took advantage of the ATS-1 satellite to hold two interactive audio-seminars with students undertaking core units in the Bachelor of Education course. A further pilot activity was undertaken in conjunction with the Golden West network by providing a one-way video presentation involving three programs concerned with a core unit in the Bachelor of Education course.

In order to obtain some idea of students' perceptions of the Extension Service and its activities, a questionnaire was sent to all re-enrolled students covering such broad aspects as reasons for undertaking courses, advantages and disadvantages of studying in the external mode, communication difficulties and counselling, support services and usefulness of materials. Approximately 25 per cent of students responded and a report was circulated throughout the College.

At the end of 1984 the Extension Service was given the responsibility for co-ordinating all administrative and procedural aspects of courses contracted with other institutions. Both Hedland and Kalgoorlie Colleges taught units on behalf of the WA College and a further two institutions will become involved in 1985.

The Community programs run by the Extension Service cover a wide range of community interests including a locally certificated course for teacher-aides. In 1984 the College offered in excess of 150 courses involving nearly 3 000 participants.

Technical Extension Service

Although the major activity of Technical Extension Service remains the servicing of 16 000 subject enrolments and maintenance of the 600 subjects on offer, there has been considerable expansion in other areas of activity, including research into specific aspects of external studies and the continued development of the rapid response systems for the design of instructional materials.

One significant piece of research has been an investigation into the reasons why a substantial number of students enrol, but fail to submit any work. The results of a computer analysis of the responses to questionnaires are expected to be made available to other external studies institutions within the next few months. It is anticipated that the current project will be followed up with a number of other research projects designed to improve our understanding of the sort of people who enrol in TAFE courses and the factors promoting the successful undertaking of studies.

The rapid response model for the design of instructional materials has been under development for a number of years and, in 1984, it proved to be most effective in meeting the demands made by syllabus changes in a number of study areas. As a result, TAFE was able to continue to offer, in the external mode, courses which would otherwise have had to be suspended pending updating of the syllabus teaching materials. It is anticipated that, with the recent installation of the Wordplex 8000 word processor at Technical Extension Service, and the development of a computerized catalogue of instructional modules, the capability of Technical Extension Service to provide learning materials, as and when required, will be further enhanced.

In addition to improvements in the development of materials, there has been some work done on new delivery strategies, and on the evaluation of student services. However, these projects are still in the very early stages and it is not likely that any information will be available until early 1986.

In 1984, the TAFE Country Network was established, and its scale of operation has grown, slowly but steadily. Previously this operated as the Technical Extension Service Country Agency scheme. The network scheme is based upon the notion of a Rural Co-ordinator being appointed

to act as a resource person for a particular country region. In consultation with the community being served, the Rural Co-ordinator identifies the need for particular education programs. An appropriate response is arranged which may be face-to-face or external tuition depending on demand and available resources. In 1985 three new centres will join the network. These are the TAFE centres at Manjimup, Kellerberrin and Kununurra. The total number of participating centres will then be 13.

In order to meet the needs of the Network for information, and as part of its contribution to the general operation, Technical Extension Service has become a service provider on Telecom's Viatel Service (a public access view data service). It has also made available, to some of the smaller and more remote members of the network, the Duct teleconference units which were designed by the South Australian Education Department, and which have proved highly effective, both from a technological point of view and also in providing a cost-effective service to remote students.

In addition to its connections with the TAFE Country Network, Technical Extension Service is also involved in the development of the national TAFE External Studies Network. As a contribution to this network, the Technical Extension Service has undertaken to publish all new course materials in either hard copy or digital form, and to make the digital stored materials available either on floppy discs, or by direct transmission through Telecom services to compatible terminals anywhere in Australia.

The national network is also working on the establishment of consortium and bureau arrangements for the development, production and tutoring of selected external courses. A number of agreements have been entered into and it is anticipated that the first courses will be on offer by the end of 1985.

The following non-award subjects were offered externally by the Technical Extension Service in 1984:

Artificial Flower Making
Drama Practical
Dressmaking Elementary
Dressmaking Practical Home
Freelance Journalism
General Drawing 1
General Drawing 2
Home Decoration
Home Management
Interior Decoration (Planning Your House)
Interior Decoration (Decorating Your Home)
Interior Decoration (Introduction to Antique Furniture)
Interior Decoration (Arranging Your Furniture)
Landscape Sketching
Landscape Sketching (Advanced)
Leatherwork
Lettering
Macrame
Oil Painting
Pottery
Short Story Writing
Short Story Writing (Advanced)
Soft Furnishings
Watercolour Techniques (Landscape)
Watercolour Techniques (Advanced)
Adult Literacy
Air Conditioning Principles
Cake Decorating 1P
Food and Nutrition
Health
Introduction to Creative Writing
Justice of Peace Course
Mathematics Remedial
Noise Control for Businessmen
Small Craft Navigation
Small Craft Seamanship

COMMENTS FROM REGIONAL COLLEGES

Reference has already been made to the contribution made by the regional colleges in providing support services to students resident in their regions who are undertaking external studies through metropolitan institutions. These colleges were invited to contribute to this annual report, and their comments are set out below.

Time did not allow for the views expressed by the regional colleges to be discussed with the External Studies Review Group prior to the preparation of this report. However, a number of issues of mutual concern will be discussed during 1985 and the outcome of these exchanges will be included in a subsequent annual report.

Hedland College

In 1984, the College extended its services to the small communities of the Eastern Corridor, with the establishment of Centres and appointment of part-time co-ordinators in Telfer, Shay Gap and Goldsworthy. Arrangements were completed with Mt Newman Mining to establish a Centre at the Redmont Line Camp, using the services of a company employee as the College representative. This leaves Marble Bar as the remaining Centre to be developed in 1985.

Each Centre is, or will be, equipped with the following resources aimed at promoting the furthering of education through external studies:

- a collection of books and reference material to help students locate appropriate courses;
- a microfiche reader and copy of the College's catalogue, along with links with library resources through the services of the part-time co-ordinator.

Similar facilities also exist in the major Centre at Newman.

The College has also adopted a philosophy in course design and selection of favouring subjects and courses supported by external studies.

The following courses have been made available through the College, based on their availability in distance learning programs:

- Bachelor of Applied Science (Nursing) (WAIT) - students enrol externally with WAIT and are supplied tutorial assistance through the College. This is supplemented by one or two workshops per semester conducted

by WAIT staff. Unfortunately there are two problems associated with this program. Only the first year of the two-year conversion program is available externally at present and WAIT is not enthusiastic about continuing with the 1984 type of delivery - essentially because of a lack of resources. The options WAIT wishes to offer to candidates for this course are: either to undertake external studies exclusively, with attendance at WAIT for workshops; or to study at the local institution, which will assume complete responsibility for the delivery of the program. In the latter case WAIT would provide course materials and semester assignment topics and the local lecturer would teach the program and mark the assignments during the semester. WAIT staff would mark the end of semester papers. The problem this poses for Colleges is the recruitment of acceptable staff. There are people available who can tutor in a program but who are not always acceptable when total responsibility is required.

- Associate Diploma in Engineering (Darling Downs Institute of Advanced Education) - students again enrol externally and receive tutorial support throughout the year from the College. This is supplemented by a residential week held at the College annually and run by College staff. This gives students exemption from the requirement to attend the parent institution.

- Bachelor of Arts (Murdoch University) - selected first year units have been arranged for delivery in Hedland in a "core" format that will permit study in later years in four different areas. The first of the units will be undertaken in 1985. For the present, students will enrol externally. A later development is expected to be full, local teaching of the selected units.

- Bachelor of Business (WAIT) - the first year of this program is offered as a fully taught program on contract. It was selected as the most appropriate business program for Hedland College to offer because students could complete the two remaining years through external studies should they be long-term residents in the area.

The centres for which the College is responsible have small populations. The potential number of students is therefore small. To make class sizes viable only two or three units are offered per semester in most programs. Thus the units to be offered over the subsequent three or more years need to be widely known in the community so that potential

students can take full advantage of them when planning their courses. In this situation, the role of the parent institution's external studies program is to make available units to those students who can handle more units than the College is offering, or to offer a choice of modes for those who prefer distance education. Some students may need to repeat a unit before it next becomes available under the College's cycle of offerings. Metropolitan external studies units thus complement the activities of the provincial Colleges.

Kalgoorlie College

There is no doubt that external studies provides a very important, alternative, study mode to students in country regions. However, sufficient attention has not been given to the support of such students using the resources and facilities of centres such as Kalgoorlie College. Currently the College has a fairly informal relationship with the Technical Extension Service and Murdoch University to provide "support" for their students, but this support structure should be and could be significantly strengthened. As with the contracting arrangements with Perth-based institutions, there should be some provision for "contracting" to service the needs of external students; this implies, of course, some funding allocation to the regional colleges in accordance with some predetermined "formula". The College would be delighted to be a formal "study" centre for external students and would provide tutorial support and access to equipment on some short, residential, basis if the necessary funding could be provided.

The people of the Kalgoorlie region should have access to any course offered in the external mode, irrespective of whether it comes from this State or not. To achieve this it may be necessary to convince CTEC that some alternative funding arrangement should be made, so that Colleges providing services can be funded directly on the basis of "enrolled" service students, rather than the present system where any funding must come from the institution granting the award. With the advent of AUSSAT, the problems relating to the servicing of students could be increased and perhaps we should be looking at some formal mechanism for funding allocations along the lines developed by WAPSEC for contracting.

Karratha College

Karratha College has been examining the means by which it may be able to provide constructive support for students living in its region and who are studying in the external mode from other institutions. Three needs have been identified to assist the College to provide this support:

- the need for the numbers and names of people from the region who are doing external studies to be provided to the College;
- the need for a system for delivering tutorial assistance for these people;
- the need for adequate library and resource support within the regional college.

In establishing a tutorial system there is a need to find some means of recompense for the College so that tutorial support can be allocated on a regular but flexible basis and not fitted in in staff spare time. Some formal system of recompense also would allow regional colleges to provide practical experiences (for example, in computing courses) for external students, thus enhancing the quality and flexibility of such courses. The Murdoch external studies tutoring model is one under consideration.

TELECOMMUNICATIONS AND SATELLITE TECHNOLOGY

The need for close collaboration between educational sectors and between educational institutions in planning and developing the uses of communications technology was recognised in 1979 with the establishment of the WA Satellite Educational Advisory Group (WASEAG). Over the past five years, this informal group has provided a forum for the exchange of information, for publication and dissemination of ideas and for ensuring that those working on the educational applications of satellite technology received support and practical assistance.

Other committees involving representation of tertiary institutions have been the WA Government Communications Centre and the National Working Party on Telecommunications for Tertiary Education.

In 1984 there have been further important organisational and operational developments.

- The Inter-Institutional Committee on Educational Telecommunications

  The four tertiary institutions in WA, working through the agency of the Tertiary Institutions Service Centre, have appointed a Telecommunications Coordinator, Dr James Lange, with a brief to facilitate co-operative projects in educational telecommunications.

  Through Dr Lange's initiative this Committee has been involved in the planning and initial implementation of two important collaborative ventures.

  Plans for the Introduction of a National Inter-Institutional Telecommunications Network

  It is proposed that in 1985 a number of educational institutions throughout Australia will install the equipment necessary to conduct group audio teleconferencing and facsimile exchange. Some institutions may be in a position to go further and include provision for videoconferencing. Experience using such a system with terrestrial links in 1985 will establish whether the post-secondary education institutions can justify setting up a dedicated satellite-based network for future use in the exchange of teaching, research and administrative material.

Educational Television via Golden West Network

An experiment in educational TV broadcasting (ED-TV) was established under the sponsorship of the Golden West Network operating out of its Bunbury studios. Program material was provided by the Audio-Visual branch of the Education Department for school children, by TAFE and by WAIT, WACAE and UWA. The Federal Government's announcement on 10 October 1984 that commercial television for outback areas will be provided by regional TV interests emphasised the importance of this experiment.

- FM Radio Sub-Carrier Use for Distance Education

Murdoch University received a grant from the Commonwealth/State Advisory Committee on the Educational Use of Communications Technology to conduct the first Australian operational trials of FM sub-carrier technology through 6UVS (FM) Universities Radio Ltd.

Working in collaboration with University of Western Australia Extension, staff of Murdoch University established a system whereby tuition was "narrowcast" from the University's audio-studio through the 6UVS transmitter to decoder receivers established in individual students' homes and other institutional locations. Feedback from students to tutor was provided by telephone and conversation between an individual student and the studio-based academic staff was re-narrowcast for all tutorial participants to hear and respond to. An educational evaluation of the trials showed that participant students and staff were appreciative and felt that the system had great value in providing for direct course-related interaction for external students. Disadvantages of this technological innovation include the current cost of decoder receivers (approximately $180-00) and the limited transmission range of 6UVS (FM). Advantages include the cost effectiveness of operation, since transmission costs are borne by the mainsignal on which the sub-carrier is "piggy-backed" and charges are incurred for only one telephone line at a time by comparison with the multiple costs for lines used in standard tele-conferencing. Murdoch University, with the co-operation of 6UVS(FM) and subject to the authority of the Department of Communications, hopes to continue provision of FM sub-carrier tuition in 1985. It will also be seeking ways of extending the current range of narrowcasting transmissions to serve a greater number of external students.

- WAITNet

  By the early part of 1984 the Western Australian Institute of Technology had developed a network of ATS-1 terminals located at Albany, Bunbury, Collie, Kalgoorlie and the Perth campus. This approved network was possible through the co-operation and support of the regional colleges and centres at each of these locations.

- Tertiary Distance Education or "Kangaroo" Net

  A consortium of Australian institutions involved in distance education formed a Tertiary Distance Education Network with the Darwin terminal operating as the main co-ordinator through Dr K Livingston. These institutions have met weekly to participate in a range of teleconferencing sessions on a variety of issues related to distance education. The broadcasts covered inter-institutional conference on study centres, the use of communications technology, administration, servicing students from other institutions, conference planning and special point to point exchanges. The Western Australian Institute of Technology has been quite active in this network with special contributions from the External Studies Unit at Murdoch University for selected sessions.

CONCLUSION

This report has focused on the use of telecommunications and satellite technology which have been developed as co-operative ventures among institutions within the State. The External Studies Review Group welcomes the recently announced establishment by the Commonwealth Tertiary Education Commission of the Standing Committee on External Studies which will, under its terms of reference, examine new technologies which might be further used for on-site and off-campus education.

During 1984, members of the Review Group participated in the WAPSEC seminar on credit transfer which considered possible future courses of action to further open up opportunities for students. It is clear that the needs of external students must be taken into account when credit transfer is examined as a measure of facilitating academic progress, particularly when the problems encountered by that group of students are often greater than those of students based on campus. The Review Group will examine this issue further and monitor developments.

There continues to be a strong spirit of co-operation between members of the Review Group and this is reflected in the report of its activities during 1984. The Review Group notes that issues concerning the cost effectiveness of the provision of alternative techniques for the provision of external studies will be considered at a national level by the CTEC Standing Committee and looks forward to the benefits which should be obtained from an appraisal of measures which have already been taken by the various providers of external studies throughout the country. The Review Committee is pleased to record that one of its members has been asked to serve as a member of the CTEC Standing Committee.

The review of existing services and the proposals for future development outlined under the section of this report headed "New Teaching Developments" reflect a commitment to policies which will improve the facilities and opportunities for external students, having regard for their special needs. It is agreed that the provision of services to external students during 1984 has been facilitated by the spirit of mutual co-operation which continues to exist amongst members of the External Studies Review Group.

Western Australian Post Secondary Education Commission

EXTERNAL STUDIES 1984

Part 2

Statistical Information

Second Annual Report of the External Studies Review Group

- EXTERNAL STUDIES REPORT 1984 -

Part 2

STATISTICAL INFORMATION

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TABLE 1 : Student enrolments by age and mode of study, UNIVERSITY AND ADVANCED EDUCATION, WESTERN AUSTRALIA (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	24	10	34	5	5	10	29	15	44
18	14	18	32	16	19	35	30	37	67
19	17	9	26	34	55	89	51	64	115
20-29	604	610	1214	260	244	504	864	854	1718
30-39	648	640	1288	154	197	351	802	837	1639
40-49	258	316	574	47	82	129	305	398	703
Over 49	78	95	173	14	17	31	92	112	204
Not Stated	40	96	136	2	2	4	42	98	140
TOTAL:	1683	1794	3477	532	621	1153	2215	2415	4630

a) Age at 31 December of preceding year

TABLE 2 : Student enrolments by age and mode of study, TECHNICAL EXTENSION SERVICE, PERTH (1984)

Age (a) (Years)	Fully External		
	Males	Females	Persons
Under 18	562	221	783
18	232	154	386
19	169	119	288
20-29	1 844	888	2 732
30-39	1 217	630	1 847
40-49	421	258	679
Over 49	161	135	296
TOTAL	4 606	2 405	7 011

a) Age at 31 December of preceding year.

TABLE 3: Student enrolments by age and mode of study, MURDOCH UNIVERSITY (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	3	2	5	-	1	1	3	3	6
18	4	7	11	9	6	15	13	13	26
19	4	3	7	18	24	42	22	27	49
20-29	163	182	345	110	93	203	273	275	548
30-39	218	206	424	49	89	138	267	295	562
40-49	93	101	194	14	26	40	107	127	234
Over 49	40	49	89	8	9	17	48	58	106
Not Stated	-	-	-	-	-	-	-	-	-
TOTAL:	525	550	1075	208	248	456	733	798	1531

a) Age at 31 December of preceding year.

TABLE 4: Student enrolments by age and mode of study, WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	-	-	-	-	2	2	-	2	2
18	-	-	-	-	2	2	-	2	2
19	-	-	-	-	-	-	-	-	-
20-29	165	225	390	7	25	32	172	250	422
30-39	138	240	378	16	25	41	154	265	419
40-49	71	127	198	9	18	27	80	145	225
Over 49	13	17	30	-	-	-	13	17	30
Not Stated	37	94	131	2	2	4	39	96	135
TOTAL:	424	703	1127	34	74	108	458	777	1235

a) Age at 31 December of preceding year.

TABLE 5: Student enrolments by age and mode of study, WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	21	8	29	5	2	7	26	10	36
18	10	11	21	7	11	18	17	22	39
19	13	6	19	16	31	47	29	37	66
20-29	276	203	479	143	126	269	419	329	748
30-39	292	194	486	89	83	172	381	277	658
40-49	94	88	182	24	38	62	118	126	244
Over 49	25	29	54	6	8	14	31	37	68
Not Stated	3	2	5	-	-	-	3	2	5
TOTAL:	734	541	1275	290	299	589	1024	840	1864

a) Age at 31 December of preceding year

TABLE 6: Student enrolments by address of home location and mode of study, UNIVERSITY AND ADVANCED EDUCATION (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	710	719	1429	446	541	987	1156	1260	2416
Rest of WA	582	639	1221	62	61	123	644	700	1344
Other	391	436	827	24	19	43	415	455	870
TOTAL:	1683	1794	3477	532	621	1153	2215	2415	4630

TABLE 7: Student enrolments by address of home location and mode of study, TECHNICAL EXTENSION SERVICE, PERTH (1984)

Address of home location	Fully External		
	Males	Females	Persons
Perth Metropolitan Area	2 210	1 346	3 556
Rest of W A	2 011	958	2 969
Interstate	349	94	443
Other	36	7	43
TOTAL	4 606	2 405	7 011

TABLE 8: Student enrolments by address of home location and mode of study, MURDOCH UNIVERSITY (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	309	264	573	200	217	417	509	481	990
Rest of WA	139	175	314	6	28	34	145	203	348
Other	77	111	188	2	3	5	79	114	193
TOTAL:	525	550	1075	208	248	456	733	798	1531

TABLE 9: Student enrolments by address of home location and mode of study, WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	123	254	377	30	69	99	153	323	476
Rest of WA	125	240	365	4	2	6	129	242	371
Interstate	89	165	254	-	1	1	89	166	255
Overseas	87	43	130	-	1	1	87	44	131
Not Stated	-	1	1	-	1	1	-	2	2
TOTAL:	424	703	1127	34	74	108	458	777	1235

TABLE 10: Student enrolments by address of home location and mode of study, WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	278	201	479	216	255	471	494	456	950
Rest of WA	318	224	542	52	31	83	370	255	625
Interstate	103	99	202	8	6	14	111	105	216
Overseas	33	13	46	13	7	20	46	20	66
Not Stated	2	4	6	1	-	1	3	4	7
TOTAL:	734	541	1275	290	299	589	1024	840	1864

TABLE II: Student enrolments by mode and field of study, MURDOCH UNIVERSITY (a) (1984)

Field of study description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
General Studies	22	26	48	2	5	7	24	31	55
Arts & Economics	196	220	416	52	101	153	248	321	569
Education	67	145	212	48	78	126	115	223	338
Science(Pure & Applied)	180	72	252	99	49	148	279	121	400
Veterinary Science	-	-	-	1	5	6	1	5	6
Program Choice deferred	1	2	3	1	3	4	2	5	7
UWA Degree	7	15	22	1	2	3	8	17	25
Degree from other Uni.	2	32	34	-	-	-	2	32	34
Not for Degree	29	12	41	1	4	5	30	16	46
TOTAL:	504	524	1028	205	247	452	709	771	1480

(a) Post-graduate enrolments not included

TABLE 12 : Student enrolments by mode and field of study, TECHNICAL EXTENSION SERVICE, PERTH (1984)

Field of study description	Fully External		
	Males	Females	Persons
Applied Science	501	229	730
General Studies	226	266	492
Art & Design	17	91	108
Building	314	6	320
Business Studies	1 346	1 104	2 450
Engineering	1 376	66	1 442
Rural & Horticulture	364	162	526
Para Medical	118	394	512
Industry Services not elsewhere classified	327	15	342
Personal Services not elsewhere classified	17	72	89
TOTAL	4 606	2 405	7 011

TABLE 13: Student enrolments by mode and field of study, ADVANCED EDUCATION (1984)

Field of study Description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Agriculture	36	10	46	19	8	27	55	18	73
Architecture	27	2	29	1	-	1	28	2	30
Arts	142	290	432	39	130	169	181	420	601
Business Studies	388	95	483	135	50	185	523	145	668
Education	498	709	1207	72	120	192	570	829	1399
Engineering	27	1	28	34	2	36	61	3	64
Health	23	128	151	10	49	59	33	177	210
Science(Pure & Applied)	17	9	26	11	14	25	28	23	51
Non-Award	-	-	-	3	-	3	3	-	3
TOTAL:	1158	1244	2402	[illegible]	373	697	1482	1617	3099

TABLE 14: Student enrolments by mode and field of study, WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION (1984)

Field of Study Description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Arts	46	77	123	1	8	9	47	85	132
Business Studies	-	-	-	-	1	1	-	1	1
Education	371	596	967	30	64	94	401	660	1061
Health	7	30	37	-	1	1	7	31	38
Non-Award	-	-	-	3	-	3	3	-	3
TOTAL:	424	703	1127	34	74	108	458	777	1235

TABLE 15: Student enrolments by mode and field of study, WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY (1984)

Field of Study Description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Agriculture	36	10	46	19	8	27	55	18	73
Architecture	27	2	29	1	-	1	28	2	30
Arts	96	213	309	38	122	160	134	335	469
Business Studies	388	95	483	135	49	184	523	144	667
Education	127	113	240	42	56	98	169	169	338
Engineering	27	1	28	34	2	36	61	3	64
Health	16	98	114	10	48	58	26	146	172
Science(Pure & Applied)	17	9	26	11	14	25	28	23	51
TOTAL:	734	541	1275	290	299	589	1024	840	1864

Programs and Courses Available in the External Mode

The units for each program and course which are available externally are listed. The availability of programs and courses, whether fully or partially, is also noted.

ARCHITECTURE

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

AVAILABILITY

TECHNICAL EXTENSION SERVICE

Diploma in Building — Part

- Communication 1
- Building Construction Drawing 1
- Building Science 8
- Builders' Bookkeeping and Costing
- Quantities 1B
- Building Construction 1B
- Building Construction Drawing 2
- Building Construction 2B
- Quantities 2B
- Building Organisation 1
- Quantities 3B
- Building Organisation 2
- Work Study 1

Diploma and Certificate in Municipal Building Surveying (Under Review) — Part

- Communicaton 1
- Building Construction 1B
- Building Construction 2B
- Communication 2

Diploma and Certificate in Construction Estimating (Building) — Part

- Building Construction 1B
- Builders' Bookkeeping and Costing
- Buildings Construction 2B
- Quantities 1B
- Communication 1
- Quantities 2B
- Quantities 3B

Diploma in Plumbing Design (Under Review) — Part

- Communication 1
- Building Construction 1B

AVAILABILITY

Certificate in Building Construction (Under Review)	Part
Communication 1	
Building Construction 1B	
Quantities 1B	
Building Construction 2B	
Quantities 2B	
Builders' Bookeeping and Costing	
Diploma, Clerk of Works	Part
Communication 1	
Building Construction 1B	
Building Construction 2B	
Builders' Bookkeeping and Costing	
Quantities 1B	
Quantities 2B	

AGRICULTURE

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Associate Diploma in Agriculture	Part
Associate Diploma in Equine Stud Management	Part
Bachelor of Business in Agriculture	Part

TECHNICAL EXTENSION SERVICE

Diploma in Agriculture (Under Review)	----
Diploma in Grain Management	Part
Cereal Chemistry	
Cereal Agronomy	
Export Practices 1	
Grain Processing	
Export Law and Insurance	
Certificate in Agriculture (Machinery and Construction)	Part
Communication A	
Certificate in Agriculture (Woolclassing)	Part
Shearing Machinery Experting	
Communication A	

AVAILABILITY

Certificate in Grain Husbandry — Part
- Communication A
- Grain Sampling
- Pest Control 1
- Grain Storage
- Supervision (Elements of)
- Grain Handling
- Pest Control 2

Certificate in Agriculture (Sheep and Wool) — Part
- Shearing Machinery Experting
- Communication A

Certificate in Agriculture Protection — Part
- Agricultural Protection A
- Legislation and Policies
- Declared Plant Control
- Declared Animal Control
- Communication A
- Extension Practice
- Environmental Science 1
- Environmental Managements

ARTS

MURDOCH UNIVERSITY

Comparative Literature (B.A.) — Full
Asian Studies (1985) (B.A.) — Full
Master of Arts in Literature & Communication (B.Lit.) — Full
Master of Arts in Literature & Communication (M.A.) — Full

COMPARATIVE LITERATURE

H229 Theory of the Novel
H233 Drama East & West
H237 Contemporary Studies in the Novel
H238 European Literature & Social Context
H280 Modern Poetry
H281 Drama Ritual & Magic
H282 Drama Society & Politics
H284 Australian Literature
H288 Principles of Comparative Literature
H289 Literary Theory
H290 Popular Literature

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ASIAN STUDIES — AVAILABILITY

H244 Asian Literature & Literary Theory
H250 Rural Society in Southeast Asia
H251 Southeast Asian Literature & Society
H254 Southeast Asian Political Economy
H256 Perceptions of Southeast Asian Society
H257 State & Revolution in Southeast Asia
H261 Malay/Indonesian II
H266 Indonesian Religious History
H267 Asian Mystical Movements
H268 Revolutionary China
H278 China Since the Cultural Revolution
H361 Malay/Indonesian III

BACHELOR OF LITERATURE & COMMUNICATION

H402 Methods of Textual Analysis
H403 The Frontiers of Literature
H411 Comparative Drama Theory
H412 Language as Ideology

MASTERS IN LITERATURE & COMMUNICATION

H501 Literary Structures
H510 Author Study
H511 Reading Television
H513 Mass Communication Systems
H514 Poetry & Poetics
H515 Representation & Sexual Differences

Economics (B.A.)	Full
History (B.A.)	Full
Social & Political Theory (including Honours) (B.A.)	Full
Women's Studies Inter-University Programme (1985) (B.A.)	Full

ECONOMICS

S258 Mineral Economics
S260 Macro-Economic Theory & Policy
S261 Business Enterprises, Markets & Consumers
S263 Economic Development

S265 Australian Economic History
S267 Resource & Environmental Economics

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AVAILABILITY

S270 Australian Monetary & Fiscal Policy
S271 Theories of Capital Growth & Distribution
S273 Studies in Industrialisation
S274 Public Finance

HISTORY

S238 Aboriginal History
S257 Modern Russian History
S259 European Socialism & Revolution
S275 Australian Social History I
S276 Social History of Modern Southeast Asia
S277 Australian Labour History
S278 Western Australia from 1829
S279 Australian Social History II
S283 Australian Environmental History
S291 Economic History of Southeast Asia since 1500
S293 European Social History
S298 Anglo-American Societies 1620-1815

SOCIAL & POLITICAL THEORY

S205 Philosophy of Social Sciences
S206 Environmental Ethics
S208 History of Modern Social & Political Theory
S210 Resource Politics

S239 Australia & Global Political Economy
S256 Work in Industrial Society
S296 Australian Society & Politics
S299 Third World Transformation & the International Order

WOMEN'S STUDIES (B.A.)

S215 Women, Capitalism & the Family
H273 Women & Literature

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Associate Diploma in Asian Languages Part

Bachelor of Arts Part
- Indonesian 101
- Multicultural Issues 111
- Multicultural Issues 112

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	AVAILABILITY
Associate Diploma in English	
Language, Literature & Culture 111	Part
Bachelor of Arts (Literature Major only)	
Australian Studies 111	Part
Australian Studies 112	
Australian Studies 211	
Australian Studies 212	
Australian Studies 393-1 (XH)	
Australian Studies 393-2 (PW)	
Language, Literature & Culture 111	
Literature 211	
Literature 212	
Literature 213	
Literature 312	
Literature 393-04 (PW)	
Bachelor of Arts (SOCIAL SCIENCES)	Full
Core Units	
Social Science 111	
Social Science 112	
Social Science 211	
Social Science 215	
Social Science 391	
Social Science 392	
Options	
Anthropology 111	
Anthropology 115	
Anthropology 215	
Anthropology 216	
Anthropology 218	
Anthropology 314	
Anthropology 315	
Anthropology 316	
Anthropology 318	
Geography 106	
Geography 111	
Geography 112	
Geography 211	
Geography 217	
Geography 311	
History 111	
History 112	
History 211	
History 216	
History 218	
History 311	
History 316	
Politics 111	
Politics 112	
Politics 215	
Politics 216	
Politics 221	
Politics 222	
Politics 311	
Politics 391	
Politics 513	
Sociology 121	
Sociology 122	

Sociology 211
Sociology 214
Sociology 311
Sociology 313
Sociology 314
Sociology 315
Sociology 316
Urban Studies 301
Welfare Practice 101
Welfare Practice 102
Welfare Practice 201
Welfare Practice 202
Welfare Practice 301
Welfare Practice 302

Associate Diploma in Social Sciences — Full
As above

Bachelor of Applied Science (LIBRARY STUDIES) — Part
Bibliography Organisation 201
Librarianship Seminar 100
Library Materials 101
Library Materials 101
Library Skills 100
Library Studies 101
Library Studies 102
Resources for Children 300
Science & Society 101
Science & Society 102
Social Science 111

Bachelor of Applied Science — Part
English 150
Psychology 113
Psychology 114
Sociology 121
Sociology 122

WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION

ASSOCIATE DIPLOMA IN COMMUNITY LANGUAGE STUDIES — Full

Portuguese 101 Introductory Oral Portuguese
Portuguese 102 Introductory Written Portuguese
Portuguese 201 Basic Communicative Portuguese
Portuguese 202 Traditional Stories in Portuguese
Vietnamese 101 Introductory Oral Vietnamese
Vietnamese 102 Introductory Written Vietnamese
Vietnamese 201 Basic Oral Vietnamese
Vietnamese 202 Traditional Stories in Vietnamese
Portuguese 301 Portuguese (Social Security)
Portuguese 303 Portuguese (Health)
Vietnamese 302 Vietnamese (Press)
Vietnamese 303 Vietnamese (Health)
Linguistics 390
Linguistics 391
Interpreting and Translating 100 Principles and Practices of Interpreting and Translating I

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	AVAILABILITY
GRADUATE DIPLOMA IN RELIGIOUS EDUCATION STUDIES	Full
Catholic Education 421 Curriculum Design in Religious Studies	
Religious Education 411 Curriculum Development in Religious Education	
Educational Psychology 443 Human Relationships and Values Education	
Studies in Religion 417 Religion, Society and Education	
Studies in Religion 411 Old Testament	
Studies in Religion 412 New Testament	
Studies in Religion 414 Hinduism and Buddhism	
Studies in Religion 415 Judaism and Islam	
Catholic Studies 412 Revelation and Christology	
Catholic Studies 422 Sacraments and Christian Worship	
GRADUATE DIPLOMA IN READING STUDIES	Full
Reading 445 Teaching Reading as a Language Process	
Reading 446 The Study and Evaluation of Reading — Language Performance	
Reading 447 Remediation and Reading	
Reading 448 An Analysis and Evaluation of Current Reading Materials	
Reading 554 Teaching Reading as a Language Process Prac. II	
Reading 555 Reading Workshop and Core Studies	
Reading 556 Teaching Reading as a Language Process Prac. III	
Reading 557 Reading in Language Investigation: Action Research	
GRADUATE DIPLOMA IN INTERCULTURAL STUDIES	Full
Intercultural Studies 590 Cross Cultural Perspectives	
Intercultural Studies 591 Cross Cultural Communication	
Intercultural Studies 592 Intercultural Research	
Intercultural Studies 593 Research Essay	
Aboriginal Studies 591 Traditional Aboriginal Society	
Aboriginal Education 591 Developments in Aboriginal Education	
Intercultural Education 590 Comparative Ethnic Education	
Linguistics 590 Intercultural Linguistics	
Linguistics 591 Australian Aboriginal Linguistics	
Language Education 593 Teaching English as a Second Language	
Migrant Education 591 Developments in Migrant Education	
Migrant Studies 591 Australian Immigration: Polices and Perspectives	
Migrant Studies 593 Migrant Communities	
Aboriginal Studies 593 Aborigines and Social Change	
GRADUATE DIPLOMA IN LANGUAGE STUDIES	Full
Language Studies 580 English and the Study of Language	
Language Studies 581 Language Study and Classroom Application	
Language Studies 583 Language Acquisition and Development	
Language Studies 584 Children's Literature	
Language Studies 585 Language Variation and Australian Society	
Language Education 580 Precedents and Policies in Language Arts	
Language Education 585 Principles of Second Language Teaching	
Language Education 587 Media in Language Teaching	
Language Education 588 Precedents and Polices in Modern Language Education	
Language Education 584 Oracy and Literacy	
Language Education 586 Advanced Methodology in TESL	
Language Education 591 Language in Learning	

TECHNICAL EXTENSION SERVICE

Certificate of Fluency in a Foreign Language (French)	Full
French 1	
French 2	
French 3	
French 4	
Certificate of Fluency in a Foreign Language (Italian)	Full
Italian 1	
Italian 2	
Italian 3	
Italian 4	

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	AVAILABILITY
Certificate of Fluency in a Foreign Language (Spanish)	Part
Spanish 1	
Spanish 2	
Spanish 3	
Certificate in Commercial Art	Part
Drawing 1D	
Lettering 1D	
Product Illustration 1	
Drawing 2D	
Diploma in Social Studies	Part
Certificate in Social Studies	Part
Communication 1	
English Literature (TAE Std)	
Economics (TAE Std)	
Geography (TAE Std)	
History (TAE Std)	
Communication 2	
Social Science 1	
English Literature (TAE Std)	
Economics (TAE Std)	
History (TAE Std)	
Geography (TAE Std)	
Psychology 1	
Sociology 1	
Geography 2	
History 2	
Social Statistics	
Philosophy 1A	
Social Science 2	
Psychology 2A	
Geography 2	
History 2	
Social Science 2	
Psychology 2A	
Psychology 2B	
Diploma and Certificate in Art Studies	Part
History 4 AS	

BUSINESS

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Associate Diploma in Business (Accounting)	all units listed below	Full
Associate Diploma in Valuation		Full
Bachelor of Business		
(Accounting)		Full
(Accounting and Business Law)		Full
(Financial Management and Economics)		Full
(Information Processing)		Full

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	AVAILABILITY
(Information Systems)	Full
(Local Government)	Full
(Marketing)	Full
(Personnel and Industrial Relations)	Full
(Public Administration)	Full
(Secretarial Administration	Full
(Valuation and Land Administration)	Full
Accounting 151	
Accounting 152	
Accounting 204	
Accounting 205	
Accounting 306	
Accounting 307	
Accounting 308	
Auditing 301	
Auditing 302	
Building 181	
Building 182	
Economics 151	
Economics 152	
Economics (Industrial) 201	
Economics (Macro) 202	
Economics (International) 311	
Economics 312	
Finance (Introductory) 201	
Finance (Managerial) 212	
Finance (Public) 303	
Industrial Relations 212	
Industrial Relations 301	
Law (Business) 151	
Law (Contract) 152	
Law (Secretarial) 201	
Law 202	
Law (Corporation) 224	
Law 302	
Law 350	
Local Government 202	
Management Principles 151	
Management Processes 152	
Marketing Management 211	
Office Administration 200	
Personnel 201	
Politics (Aust.) 215	
Politics (Comparative) 216	
Public Administration 201	
Quantitative Methods 151	
Quantitative Methods 152	
Taxation 303	
Taxation 304	
Valuation 121	
Valuation 122	
Valuation 201	
Valuation 202	
Valuation 301	
Urban Studies 301	

	AVAILABILITY
Graduate Diploma in Business and Administration & Master of Business	
(Accounting)	Part
(Business Management)	Full
(Education Administration)	Full
(Financial Management and Economics)	Part
(Public Administration)	Part
Accounting 509	
Accounting 511	
Administration (Ed) 541	
Administration (Ed) 542	
Administration (Ed) 544	
Administration (Public) 503	
Administrative Leadership 505	
Business Policy 511	
Comparative (Ed) 543	
Economics 509	
Economics 511	
Finance 509	
Industrial Relations 501	
Industrial Relations 502	
Law 501	
Law 509	
Law (Administration) 522	
Management 599	
Management Project 590	
Marketing 503	
Marketing 504	
Organisations 509	
Personnel 501	
Personnel 502	
Quantitative Methods 509	

Valuation

Associate Diploma in Valuation	Full
Accounting 151	
Building 181	
Building 182	
Economics (Macro) 152	
Law 151	
Law 152	
Management Principles 151	
Quantitative Methods 151	
Quantitative Methods 152	
Valuation 121	
Valuation 122	
Valuation 201	
Valuation 202	
Valuation 301	
Bachelor of Business (Valuation and Land Administration)	Part
As above plus	
Economics (Micro) 151	
Management Processes 152	
Urban Studies 301	

TECHNICAL EXTENSION SERVICE

	AVAILABILITY
Diploma and Certificate in Accounting	Full
Accounting 1A	
Accounting 1B	
Communication 1	
Business Maths and Stats 1	
Social and Economic Structure	
Business Law 1	
Accounting 2A	
Accounting 2B	
Business Law 2	
Business Maths and Stats 2	
Economics 1	
Business Computer Systems A & B	
Accounting 3A	
Accounting 3B	
Taxation Law and Practice A	
Taxation Law and Practice B	
Accounting Administration	
Accounting Controls	
Costing Procedures A	
Costing Procedures B	
Diploma in Banking and Finance	Full
Communication 1	
Accounting 1A	
Accounting 1B	
Communication 2	
Accounting 2A	
Accounting 2B	
Business Law 1	
Economics 1	
Banking Practice	
Business Law 2	
Economics 2G	
Costing Procedures A	
Costing Procedures B	
Accounting 3A	
Accounting 3B	
Lending and Securities	
Diploma in Business Administration	Part
Business Procedures 1	
Communication	
Accounting 1A	
Accounting 1B	
Social and Economics Structure	
Business Maths and Stats 1	
Business Law	
Business Maths and Stats 2	
Business Computer Systems A and B	
Economics 1	
Psychology 1	
Personnel Techniques	
Transport Law	

	AVAILABILITY
Public Relations	
Organisation Theory	
Taxation Law and Practice A	
Taxation Law and Practice B	
Industrial Relations	
Personnel Management	
Financial Management 1	
Financial Management 2	
Economics 2G	
Diploma in Credit Management	Part
Business Procedures 1	
Communication 1	
Accounting 1A	
Accounting 1B	
Business Maths and Stats 1	
Business Law	
Credit Theory and Practice	
Business Maths and Stats 2	
Economics 1	
Business Law 2	
Lending and Securities	
Financial Management 1	
Financial Management 2	
Psychology 1	
Organisation Theory	
Office Administration	
Statistics	
Communication 2	
Diploma in Local Government (Clerk)	Part
Accounting Systems	
Communication 1	
Legal Principles	
Municipal Practice A - Part 1	
Municipal Practice A - Part 2	
Local Government Law 1	
Local Government Accounts 1	
Local Government Accounts 2	
Statistics	
Local Government Law 2	
Municipal Practice B - Part 1	
Municipal Practice B - Part 2	
Administrative Law 1	
Economics 1	
Diploma and Certificate in Computer Programming	Part
Computer Systems 1	
Communication 1C	
Communication 1	
Diploma in Local Government (Treasurer)	Full
Accounting Systems	
Communication 1	
Commercial Law C	
Accounting 2A	
Accounting 2B	
Economics 1	

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AVAILABILITY

Local Government Law 1
Local Government Law 2
Local Government Accounts
Municipal Practice A - Part 2
Statistics
Costing Procedures A
Costing Procedures B
Business Computer Systems A & B

Diploma in Commercial Studies Part

Communication 1
Communication 1C
Typing 1
Typing 2
Bookkeeping (Day Commercial)
Receptionist Function
Typing 3
Communication 2
Typing Secretarial
Secretarial Administration
Accounting 1A
Accounting 1B
Accountancy
Audio Typing 1
Bookkeeping (Day Commercial)
Bookkeeping (General)
Commercial Calculations
Accounting 2A
Accounting 2B
Audio Typing 2
Data Processing B
Economics 1
Financial Management 1
Meetings Procedure - Companies
Organisation 1A
Organisation 1B

Diploma in Secretarial Studies Part

Typing 3
Shorthand Speed 50-80 wpm
Stenography 1
Communication 1C
Communication 1
Shorthand Speed 100 wpm
Typing Secretarial
Audio Typing 1
Stenography 2
Office Practice 2
Audio Typing 2
Stenography
Communication 2
Secretarial Administration
Financial Management 1
Economics 1
Meetings Procedure - Companies
Organisation Theory 1A
Organisation Theory 1B

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	AVAILABILITY
Diploma and Certificate in Advertising	Part
Communication 1	
Legal Principles	
Economics 1	
Psychology	
Statistics	
Financial Management	
Marketing Management 1	
Organisation Theory	
Market Research	
Marketing Management 2A	
Public Relations	
Diploma and Certificate in Real Estate Management	Part
Communication 1	
Real Estate Practice 1	
Real Estate Accounting	
Real Estate Law 1	
Real Estate Valuation 1	
Building Construction 1R	
Real Estate Practice 2	
Real Estate Law 2	
Real Estate Valuation 2	
Real Estate Financial Management	
Real Estate Law 3	
Regional Planning	
Economics 1	
Diploma and Certificate in Automotive Engineering Management	Part
Supervision (Elements of)	
Communication 1	
Legal Principles	
Economics 1	
Psychology	
Public Relations	
Financial Management	
Industrial Relations	
Power Hydraulics 1	
Office Organisation	
Financial Management (Advanced)	
Diploma and Certificate in Fire Engineering Management	Part
Communication 1	
Economics	
Psychology 1	
Personnel Techniques	
Industrial Relations	
Organisation Theory	
Public Relations	
Psychology 2B	
Diploma in Hospital Administration	Part
Communication 1	
Accounting 1A	
Accounting 1B	
Social and Economic Structure	
Work Study 1	
Commercial Law C	
Hospital Law A	
Psychology 1	

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	AVAILABILITY
Hospital Law B	
Organisation Theory	
Hospital Accounting and Financial Management	
Office Organisation	
Personnel Management	
Diploma in Management Studies	Part
Work Study 1	
Economics 1	
Communication 1	
Legal Principles	
Psychology 1	
Industrial Relations	
Financial Management 1	
Statistics	
Organisation Theory	
Data Processing A	
Personnel Management	
Financial Management 2	
Production Organisation	
Marketing Management 1	
Office Organisation	
Diploma and Certificate in Personnel Management	Part
Accounting Systems	
Communication2	
Statistics	
Industrial Law 1	
Financial Management 1	
Diploma and Certificate in Printing Management	Part
Communication 1	
Work Study 1	
Legal Principles	
Psychology 1	
Statistics	
Financial Management	
Economics 1	
Industrial Relations	
Organisation Theory	
Personnel Management	
Financial Management (Advanced)	
Production Organisation	
Office Organisation	
Diploma in Public Administration	Part
Government 1	
Economics 1	
Communication 2	
Government 2	
Government 3	
Electives	
Accounting 2A	
Accounting 2B	
Economics 2G	
Business Law 1	
Work Study 1	
Instructional Techniques	
Industrial Law 1	

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	AVAILABILITY
Diploma and Certificate in Supply Management	Part
Communication 1	
Legal Principles	
Supervision, Elements of	
Work Study 1	
Economics 1	
Psychology 1	
Financial Management	
Statistics	
Organisation Theory	
Office Organisation	
Data Processing A	
Financial Management (Advanced)	
Industrial Relations	
Transport Economics	
Personnel Management	
Diploma and Certificate in Transport Management	Part
Communication 1	
Accounting Systems	
Statistics	
Financial Management 1	
Economics 1	
Organisation Theory	
Financial Management 2	
Warehouse Management	
Salesmanship	
Diploma and Certificate in Work Study	Part
Statistics	
Work Study 1	
Communication 1	
Economics 1	
Legal Principles	
Psychology 1	
Office Organisation	
Financial Management 1	
Industrial Relations	
Psychology 2B	
Organisation Theory	
Data Processing A	
Production Organisation	
Diploma in Marketing	Part
Certificate in Sales Supervision	
Communication 1	
Salesmanship	
Legal Principles	
Accounting Systems	
Sales Supervision	
Economics 1	
Psychology 1	
Marketing Management 1	
Statistics	
Market Research	
Financial Management 1	
Marketing Management 2A	
Organisation Theory	

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	AVAILABILITY
Certificate in Credit Management	Part
Accounting 1A	
Accounting 1B	
Communication 1	
Commercial Law C	
Economics 1	
Certificate in Commercial Studies	Part
Certificate in Commercial Studies (Part-Time)	
Communication 1C	
Communication 1	
Typing 1	
Audio Typing 1	
Typing 2	
Office Practice 1	
Typing 3	
Commercial Calculations	
Bookkeeping (Day Commercial)	
Bookkeeping (General)	
Audio Typing 1	
Certificate in Secretarial Practice	Part
Certificate in Secretarial Practice (Part-Time)	
Typing Secretarial	
Audio Typing 2	
Office Practice 2	
Shorthand Speed	
Stenography 2	
Accounting 1A	
Accounting 1B	
Certificate in Exporting (Under Review)	Full
Export Law and Insurance	
Export Practice 1	
Economics 1	
Export Marketing 1	
Export Marketing 2	
Export Practice 2	
International Economics	
Certificate in Functional Management (Finance)	Full
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Financial Management (Advanced)	
Legal Principles	
Certificate in Functional Management (Office)	Full
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Work Study 1	
Office Organisation	
Financial Management	

	AVAILABILITY
Certificate in Functional Management (Production)	Part
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisational Theory	
Work Study 1	
Certificate in Functional Management (Retail)	Part
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Work Study 1	
Certificate in Functional Management (Supply)	Part
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Legal Principles	
Certificate in Retail Management	Part
Communication 1	
Supervision, Elements of	
Financial Management 1	
Certificate in Travel Operation (Under Review)	Part
Communication 1	
Certificate in Employment Consulting	Part
Communication 1	
Business Procedures 1	
Personnel Techniques	
Techniques of Selection	

EDUCATION

MURDOCH UNIVERSITY

	AVAILABILITY
Primary Teacher Education (B.A.)	Attendance requirements
Secondary & Post-Secondary Education (B.A./Dip.Ed; B.Sc/Dip.Ed.)	Attendance requirements
Diploma in Education (Dip. Ed.)	Attendance requirements
Bachelor of Education (B.Ed.)	Full
Education Studies (B.A.)	Full
Diploma in Education Studies (Dip. Ed. St.)	Full

E210	Education Studies Project
E221	Education in Context
E222	Australian Education
E223	Philosophy of Education
E224	Sociology of Education
E241	Processes of Learning
E242	Educational Psychology
E244	Educational Measurement
E272	English & the Curriculum
E273	Social Studies & the Curriculum
E274	Science & the Curriculum
E275	Mathematics & the Curriculum
E277	Diagnostic Teaching
E282	English & the Primary Curriculum
E283	Social Studies & the Primary Curriculum
E284	Science & the Primary Curriculum
E285	Mathematics & the Primary Curriculum
E402	Curriculum Processes & Issues
E403	Religious Education
E422	National Education Policy & Administration
E423	Knowledge Persons & Education
E424	Sociological Perspectives on Education
E426	Contemporary Educational Thought
E434	Education Cross Cultural Perspective
E441	Advanced Educational Psychology I
E442	Advanced Educational Psychology II
E444	Advanced Educational Measurement
E446	Adult Cognition, Development & Education
E466	Mathematics Education
E471	Classroom Research Project
E455	Advanced Social Research Methods in Education
A222	Social Research Methods

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

AVAILABILITY

Diploma in Education Administration — Full

- Administration (Ed) 361
- Administration (Ed) 362
- Administration (Ed) 363
- Administration (Ed) 364
- Administration (Ed) 365
- Administration (Ed) 391
- Law (Education) 361
- Management Principles 151
- Management Processes 152
- Politics (Aust.) 215

Bachelor of Education Conversion Course for Qualified Teachers — Full

- Education 300 Development & Learning
- Education 330 Analysis of Teaching
- Education 360 School-Based Curriculum Development
- Education 400 Language & Logic in Education
- Education 411 Issues in Education
- Education 420 Strategies of Teaching
- Education 460 Curriculum Theory & Practice

TAFE

- Education 201 Communication Studies I
- Education 202 Communication Studies II
- Education 230 Introduction to TAFE Teaching
- Education 233 Education Media & Materials
- Education 236 Strategies of TAFE Teaching I
- Education 237 Theory & Practice of Teaching Workshop I
- Education 238 Theory & Practice of Teaching Workshop II
- Education 239 Internship I
- Education 240 Internship II
- Education 267 Curriculum & Instruction I
- Education 304 TAFE in Aust: Foundations & Current Issues
- Education 327 Evaluation of Student Learning
- Education 328 The Psychology of Adolescents & Adults
- Education 329 Technology, Society & Employment
- Education 336 Strategies of TAFE Teaching II
- Education 337 Theory & Practice of Teaching Workshop III
- Education 338 Theory & Practice of Teaching Workshop IV
- Education 339 Internship III
- Education 340 Internship IV
- Education 367 Curriculum & Instruction II

Graduate Diploma in Science Education — Full

- Biology Education 503
- Chemistry Education 504
- Computer Education 505
- Integrated Science Education 506
- Mathematics Education 507
- Mathematics Education 513
- Mathematics Education Project 591
- Mathematics Education project 592
- Physics Education 508
- Science Education 513 - Trends
- Science Education Project 591
- Science Education Project 592

AVAILABILITY

Science & Mathematics Education 501 - Foundation Issues
Science & Mathematics Education 502 - Research & Evaluation
Statistics 511

Master of Applied Science (Science Education) — Full

Mathematics Education Seminar 614
Mathematics Education Seminar 615
Mathematics Education Thesis Preparation 1/699
Mathematics Education Thesis Preparation 2/699
Science Education Seminar 614
Science Education Seminar 615
Science Education Thesis Preparation 1/699
Science Education Thesis Preparation 2/699

WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION

DIPLOMA OF TEACHING (CONVERSION) — Full

Developmental Psychology 352
Educational Measurement & Evaluation 353
Behaviour Modification 360
Educational Theory 355
Science Education 200
Mathematics Education 200
Mathematics Education 201
Language Arts (ECE) 301
Language Arts (ECE) 302
New Trends in Language Arts 262
Curriculum Studies in Physical Education
Migrant Education 391
Aboriginal Education 390
Religious Education 208
Mathematics Education 382
Perspectives on Art in Education and Contemporary Art 350
Historical Geography of Early 19th Century W.A. 278 **
Australia and Asia 391 **
Environment and Society 214 **
Urban Australia 210 **
Western Music 305
Biology 391 ##
Human Biology 2240 ##
Statistics 310##
Children's Literature 254 *
Linguistics 390 *
Linguistics 391 *
Theatre History 390 *
Religious Studies 201 #
Religious Studies 203 #
Religious Studies 311 #
Religious Studies 312 #

BACHELOR OF EDUCATION — Full

COMPULSORY UNITS
Curriculum Theory and Practice
Evaluation of Teaching and Learning

EDUCATION STUDIES STRAND (6 units)
Areas of Concentration

(i) Teaching Children with Special Needs (Special Education)
Spec. Ed. 584 Behaviour Management
Spec. Ed. 593 Reading
Spec. Ed. 592 Social Skills
Spec. Ed. 594 Mathematics
Spec. Ed. 580 Foundation Studies I
Education 448 Remedial Education I
Education 449 Remedial Education II

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AVAILABILITY

(ii) Religious Education — Full

Compulsory unit - Studies in Religion 417 Religion, Society and Education

At least two (2) units from -
Studies in Religion 414 Hinduism and Buddhism
Studies in Religion 415 Judaism and Islam
Studies in Religion 411 Old Testament
Studies in Religion 412 New Testament The Gospels
Catholic Studies 412 Revelation and Christology
Catholic Studies 422 Sacraments and Christian Worship

AND
At least two (2) units from
Religious Education 411 Curriculum Development in Religious Education
OR
Catholic Education 421 Curriculum Design in Religious Education
Educational Psychology 443 Human Relationship and Values Education

A further unit from any of the above listed units.

(iii) Multicultural Education — Full

A choice of between 2 to 4 units from each of sections (A) and (B) identified below to make up a total of 6 units in this concentration.

(A)
Education 458 Aboriginal and Migrant Education
Intercultural Education 590 Comparative Ethnic Education
Migrant Education 591 Developments in Migrant Education
Aboriginal Education 591 Developments in Aboriginal Education
Language Education 593 Teaching English as a Second Language

(B)
Aboriginal Studies 591 Traditional Aboriginal Society
Aboriginal Studies 593 Aborigines and Social Change
Migrant Studies 591 Australian Immigration Policies and Perspectives
Migrant Studies 593 Migrant Communities
Intercultural Studies 590 Cross Cultural Perspectives
Intercultural Studies 591 Cross Cultural Communication
Linguistics 590 Intercultural Linguistics
Linguistics 591 Australian Aboriginal Linguistics
Aboriginal Studies 480 Remote Aboriginal Communities
Aboriginal Studies 482 Aborigines of the South West of W A
Aboriginal Studies 484 Aboriginal History
Aboriginal Studies 486 Aboriginal Languages
Migrant Studies 480 Sociocultural Background of Migrants
Migrant Studies 482 Migrant Children and their Families
Migrant Studies 484 Language Issues
Migrant Studies 486 Identity in a Multi-cultural Society

(iv) Contextual Studies — Full

Education 4626 Issues in Australian Education
Education 4628 Sociology of the School
Education 440 Philosophy of Education II
Education 442 Studies in Education Policy and Decision Making II
Education 443 Studies in Education Policy and Decision Making III
Education 446 Sociological Perspectives of Educational Change

CURRICULUM/GENERAL STUDIES STRAND (6 units)

Students must undertake 6 units in a curriculum/general studies concentration in the pattern of between 2 and 4 units from each area to meet the requisite total number of units.

(i) Social Science Education — Full

Curriculum
Curriculum Studies 484 Social Science
Education 458 Aboriginal and Migrant Education
Aboriginal Education 591 Developments in Aboriginal Education
Migrant Education 591 Developments in Migrant Education
Intercultural Education 590 Comparative Ethnic Education

General
Social Science 470 History of Western Australia
Social Science 472 Environmental Policy
Social Science 475 The Australian City
History 3500 Contemporary History
History 3600 Contemporary History
Anthropology 2100 Introductory Anthropology
Aboriginal Studies 591 Traditional Aboriginal Society
Aboriginal Studies 593 Aborigines and Social Change
Migrant Studies 591 Australian Immigration Policies and Perspectives
Migrant Studies 593 Migrant Communities
Intercultural Studies 590 Cross Cultural Perspectives
Intercultural Studies 591 Cross Cultural Communication
Aboriginal Studies 480 Remote Aboriginal Communities
Aboriginal Studies 484 Aboriginal History
Aboriginal Studies 482 Aborigines of the South West of W A
Migrant Studies 480 Sociocultural Background of Migrants
Migrant Studies 486 Identity in a Multi-cultural Society
Migrant Studies 482 Migrant Children and their Families

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AVAILABILITY

(ii) Physical and Health Education — Full

Curriculum
Curriculum Studies 486 Physical and Health Education
Physical Education 492 Health
Physical Education 562 Curriculum Studies Prac I
Physical Education 567 Curriculum Studies Prac II
Physical Education 568 Health and the Primary School Child
Physical and Health Education 4100 Community Recreation
Physical and Health Education 4155 Current Issues in Physical and Health Education

General
Physical Education 560 Applied Kinesiology *
Physical Education 566 Sociology of Sport and Leisure
Physical Education 564 Paediatric Work Physiology
Physical Education 482 Acquisition of Skills *
Physical and Health Education 4114 Environmental Health
Physical Health Education 4402 Health Care Systems in Australia
Physical Education 572 Sports Medicine

* These units are mutually exclusive

(iii) Science Education — Attendance Requirements

Curriculum
Curriculum Studies 481 Science
(Further units will become available in 1985)

General
Environmental Science 480 Ecology
Environmental Science 482 Pollution
Human Biology 2240
(Further units will become available in 1985)

(iv) Art — Full

Curriculum
Art 4155 Current Issues in Art Education *
Art 4156 Research in Art Education *
Art 482 Approaches to Children's Art

General
Art 480 Core Ideas in 19th and 20th Century Art
Art 486 A Perspective on Australian Art
Education 464 Education, Culture and Art
Art 1211 Art History
Art 4701 Further Studies in an Art Field #
Craft 4701 Further Studies in a Craft Field #

To undertake these units students must have studied Art at 3rd Year level. *
To undertake these units students must have studied Art or Craft at the 3rd Year level. #

(v) Mathematics Education — Full

Curriculum
Mathematics Education 382 History of Mathematics
Curriculum Studies 483 Mathematics

General
Mathematics 480 Geometry
Mathematics 484 Applied Algebra
Mathematics 4101 Transformational Geometry *
Mathematics 4104 Operational Research *
Mathematics 4280 Numerical Analysis *

These subjects are restricted to students who have a background of teaching at the secondary level. *

(vi) Communications Education — Full

Reading

Curriculum
Reading Education 445 Teaching Reading as a Language Process I
Reading Education 447 Remediation in Reading
Reading Education 554 Teaching Reading as a Language Process Prac II
Reading Education 555 Reading Workshop and Core Studies
Reading Education 556 Teaching Reading as a Language Process Prac III
Reading Education 557 Reading - Language Investigation: Action Research

General
Reading Education 444 Reading and Learning to Read
Reading Education 446 The Study and Evaluation of Reading - Language Performance
Reading Education 448 An Analysis and Evaluation of Current Reading Materials
Reading Education 449 Language, Thought and Reading

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English (Secondary)

Curriculum
English 4155 Current Issues in English Teaching
English 4401 Advanced Language and Learning
English 4156 Research in English Teaching
English 4401 Advanced Language and Learning

General
English 4700 Research and Thesis in Literature
English 4800 Research and Thesis in Literature
English 4708 Advanced Writing
English 4808 Advanced Writing

Teaching English as a Second Language
Curriculum
Language Education 587 Media in Language Teaching
Language Education 591 Language in Learning

Language Education 585 Principles of Second Language Teaching
Language Education 586 Advanced Methodology in TESL

Language Education 594 Teaching English as a Second Language

General
Language 480 Our Changing Language
OR
Language Studies 580 English and the Study of Language
Language 482 Language in Society

OR
Language Studies 585 Language Variation and Australian Society

Language Studies 581 Language Study and Classroom Applications
Language Studies 584 Language Acquisition and Development

Language 498 Dialects and English

Modern/Community Language Teaching
Curriculum
Language Education 587 Media in Language Teaching
Language Education 588 Precedents and Policies in Modern Language Education

Language Education 585 Principles of Second Language Teaching
Language Education 589 Modern/Community Languages in a Primary Curriculum

Language Education 590 Advanced Methodology in Modern Languages

General
As for TESL stream above

Language Arts Education

Curriculum
Curriculum Studies 489 Curriculum Studies in English
Language Education 580 Precedents and Policies in Language Arts Education
Language Education 584 Literacy and Oracy

Language Education 581 Advanced Methodology in Language Arts

Language Education 591 Language in Learning

Early Childhood Education 440 Listening and Talking in the Junior Primary Classroom
Early Childhood Education 441 Reading and Writing in the Junior Primary Classroom

General
Language Studies 582 Language Study and Classroom Applications

Literature 480 European Drama 1870-1970
Literature 482 19th and 20th Century American Fiction

Literature 485 Short Fiction

Literature 484 Children and Fiction

OR
Language Studies 584 Children's Literature
Language 480 Our Changing Language
OR
Language Studies 580 English and the Study of Language
Language 482 Language in Society

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OR
Language Studies 585 Language Variation and Australian Society

Language Studies 581 Language Study and Classroom Application
Language Studies 583 Language Acquisition and Development

Language 498 Dialects and English

AVAILABILITY

ENGINEERING

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Bachelor of Applied Science (ENGINEERING) — Part

Bachelor of Applied Science (SURVEYING) — Part

- Calculus of Observations 281
- Calculus of Observations 282
- Cartography 181
- Cartography 182
- Computation 181
- Computation 182
- Computation 281
- Computation 282
- English 150
- Geography 111
- Geography 112
- Mathematics 101
- Mathematics 102
- Surveying 181
- Surveying 182

TECHNICAL EXTENSION SERVICE

Certificate in Automotive Engineering — Part

- Automotive Science
- Automotive Power 1
- Automotive Traction
- Power Hydraulics 1
- Automotive Diesel 1
- Work Study 1

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	AVAILABILITY
Diploma in Cartography	
Certificate in Cartography	Part
Photogrammetry 1 (new)	
Cartographic Drafting	
Communication 1	
Computer Techniques 1	
Mathematics 1F	
Principles of Cartography	
Surveying 1	
Survey Computations 1	
Geological Mapping	
Survey Computations 2	
Geological Mapping	
Survey Computations 2	
Photogrammetry 2 (new)	
Laws and Regulations (Surveying)	
Computer Techniques	
Diploma in Civil Engineering	Part
Drawing 1 Engineering	
Mathematics 1 Engineering	
Communication 1	
Mathematics 2 Engineering	
Materials 1	
Hydraulics 1	
Soil Mechanics	
Design (steel)	
Roads and Railways	
Water supply and Waste Disposal	
Bridges	
Diploma in Engineering Surveying	Part
Mathematics 1F	
Qualifying Mathematics	
Communication 1	
Principles of Cartography	
Calculating Processes	
Mathematics 2F	
Mathematics 1D	
Survey Computation 1	
Mathematics 2D (Surveying)	
Survey Computations 2D	
Surveying 2D	
Land Assessment	
Surveying 3D	
Photogrammetry 1 (old)	
Diploma in Mine Surveying	Part
Qualifying Mathematics D	
Mathematics 1F	
Communication 1	
Principles of Cartography	
Computer Techniques 1	
Mathematics 2F	
Mathematics 1D	
Survey Computations 1	
Surveyinging 1	
Mathematics 2D (Surveying)	
Survey Computations 2	

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	AVAILABILITY
Survey Law (One Term)	
Surveying 2D	
Mining 1	
Photogrammetry 1 (old)	
Surveying 3D	
Mining 2	
Diploma in Surface Mining	Part
Mathematics 1F	
Qualifying Mathematics D	
Communication 1	
Calculating Processes	
Mathematics 2F	
Mathematics 1D	
Drawing 1C (Engineering)	
Mineral Dressing	
Quarrying 1	
Mechanical Equipment	
Quarrying 2	
Surveying 1	
Survey Computations 1	
Surface Mining 1	
Surface Mining 2	
Supervision D	
Diploma in Mechanical Engineering (Part-time)	Part
Drawing 1 Engineering	
Mathematics 1 Engineering	
Workshop 1M	
Communication 1	
Drawing 2 Engineering	
Mathematics 2 Engineering	
Materials 1	
Mechanical Equipment	
Drawing 3 Mechanical	
Mechanics 2	
Hydraulics 1	
Thermodynamics 1	
Electrical Technology	
Machine Design 1	
Machine Design 2	
Fluid Mechanics	
Diploma and Certificate in Surveying (Part-time)	Part
Qualifying Mathematics	
Mathematics 1F	
Surveying 1	
Principles of Cartography	
Communication 1	
Survey Computations 1	
Computer Techniques 1	
Surveying 2	
Photogrammetry 1(A)	
Engineering Geology	
Survey Computations 2	
Mining 1	
Applied Survey Maths	
Photogrammetry 1A	
Engineering Geology	

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	AVAILABILITY
Hydrology A	
Hydrology B	
Mining 1	
Surveying Computations 2	
Mining 2	
Certificate in Mining (Part-time)	Part
Communication 1	
Mathematics 1F	
Physics 1	
Chemistry 1	
Mining 1	
Mechanical Equipment	
Mining 2	
Quarrying 2	
Certificate in Mechanical Engineering Drafing	----
Certificate in Civil Engineering Drafting	----
Certificate in Road Engineering Drafting	Part
Mathematics 1F	
Qualifying Mathematics D	
Communication 1	
Drawing 1C (Engineering)	
Mathematics 2F	
Mathematics 1D	
Hydraulics 1	
Principles of Cartography	
Surveying 1	
Drawing 2C (Civil)	
Road Construction	
Survey Computations 1	
Certificate in Civil Engineering	Part
Drawing 1 Engineering	
Mathematics 1 Engineering	
Communication 1	
Mathematics 2 Engineering	
Materials 1	
Hydraulics 1	
Certificate in Mechanical Engineering	Part
Drawing 1 Engineering	
Mathematics 1 Engineering	
Communication 1	
Drawing 2 Engineering	
Mathematics 2 Engineering	
Materials 1	
Mechanical Equipment	
Drawing 3 Mechanical	
Mechanics 2	
Hydraulics 1	
Diploma/Certificate in Hospital Engineering	Part
Communication 1	
Mathematics (Marine)	
Mathematics 1F	
Drawing 1 (Marine)	
Applied Mechanics 1	
Heat Engines 1	

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	AVAILABILITY
Electrotechnology 1	
Building Construction 1B	
Refrigeration and Air Conditioning Plant 1A	
Applied Mechanics 2	
Heat Engines 2	
Certificate in Industrial Electronics	Part
Electrical 1C	
Electronics 1C	
Electronics 2C	
Communication 1	
Electronic Systems 1	
Certificate in Mineral Processing	Part
Communication 1	
Mathematics 1F	
Physics 1	
Chemistry 1	
Computer Techniques 1	
Certificate in Seamanship (Fishing)	----
Certificate in Town Planning Drafting	----
Certificate in Media Electronics	Part
Electrical 1C	
Electronics 1C	
Communication 1	
Certificate in Electrical Draftsmanship	Part
Communication 1	
Electrical Engineering 1D	
Electronics 1D	
Electrical Design 1	
Certificate in Electrical Engineering	Part
Communications 1	
Electrical Engineering 1D	
Electronics 1D	
Electrical Design 1	
Certificate in Electronic Engineering	Part
Communication 1	
Electrical Engineering 1D	
Certificate in Industrial Electronics	Part
Electrical 1C	
Electronics 1C	
Electronics 2C	
Communication 1	
Electronic Systems 1	
Certificate in Automotive Engineering	Part
Automotive Science	
Automotive Power 1	
Automotive Traction	
Power Hydraulics 1	
Automotive Diesel 1	
Work Study 1	

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	AVAILABILITY
Certificate in Plumbing (Under Review)	Part
Communication 1	
Builders Bookkeeping and Costing	
Building Construction 1B	
Certificate in Sheet Metal Work (Under Review)	Part
Drawing 1C (Engineering)	
Communication 1	
Work Study 1	
Certificate in Refrigeration and Air Conditioning (Under Review)	Part
Supervision (Elements of)	
Business Practice	
Communication 1	

HEALTH

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Bachelor of Applied Science	Part
Human Biology 184	
Statistics 121	
Diploma of Applied Science	Part
Human Biology 181	
Human Biology 182	
Bachelor of Applied Science	Part
(Clinical Nursing Stream)	
(Nursing Administration Stream)	
(Nursing Education Stream)	
(Primary Health Care Stream)	
Biological Science 261	
Biological Science 262	
Education 330 Analysis of Teaching	
Education 420 Strategies of Teaching	
Human Biology 181	
Human Biology 182	
Management Principles 151	
Management Processes 152	
Nursing Studies 261	
Nursing Studies 262	
Organisations 301	

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	AVAILABILITY
Bachelor of Applied Science	Full
Clinical Medicine 241	
Human Biology 183	
Human Biology 184	
Kinesiology 241	
Neuroscience 242	
Occupational Health 242	
Occupational Health & Management 342	
Occupational Therapy 241	
Occupational Therapy 242	
Occupational Therapy 244	
Occupational Therapy 245	
Occupational Therapy 341	
Occupational Therapy 343	
Occupational Therapy 344	
Occupational Therapy 347	
Occupational Therapy 349	
Occupational Therapy 441	
Graduate Diploma in Medical Radiography	Part
Administration (Public) 303	
Administrative Leadership 505	
Advanced Techniques 500	
Education 353 Instructional Technology	
Finance 509	
Industrial Relations 501	
Industrial Relations 502	
Organisations 509	
Pathology 500	
Personnel 501	
Personnel 502	
Radiography 500	
Radiologic Physics 500	
Graduate Diploma in Occupational Safety and Health	Part
Epidemiology 581	
Health & Safety Law & Management 582	
Issues in Health & Safety 583	
Occupational Health & Safety 581	
Occupational Safety & Health Project 590	
Occupational Safety & Health Project 591	
Occupational Safety & Health Specialisation 591	
Occupational Safety & Health Specialisation 592	
Occupational Safety & Health Specialisation 593	
Occupational Safety & Health Specialisation 594	
Safety Technology 582	
Toxicological Principles 582	

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WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION

AVAILABILITY

ASSOCIATE DIPLOMA IN HEALTH EDUCATION — Full

Foundation Studies (9 units)

Human Development	111	Child Development
Human Development	121	Life Span Psychology - Adolescence to Old Age
Sociology	111	Society and People
Sociology	222	Contemporary Australian Society
Sociology	224	Sociology of Health

Professional Studies (6 units)

Health Education	111	Introduction to Health Education
Health Education	121	Current Issues in Health Education
Health Education	222	Mental Health
Health Education	241	Communities Organisation and Community Development
Health Studies	111	Health Education within the Health Care System
Health Studies	221	Epidemiology and Biostatistics

Communication and Teaching Studies (5 units)

Communication	111	Communication in Health Education
Communication	221	Mass Communication Theory and Practice
Teaching Workshop	211	Teaching Strategies

Field Studies and Practice (2 units)

Health Education	241	Field Study Project
Health Education	242	Health Education Practice

Diploma in Environmental Health — Part

- Sociology and Economics
- Building Construction 1B
- Community health
- Communication 1
- Environmental Health 1
- Principles of Public Health
- Building Construction 2B
- Environmental Health 2
- Environmental Science
- Meat Inspection 1
- Meat Inspection 2

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AVAILABILITY

LAW

TECHNICAL EXTENSION SERVICE

Certificate in Industrial Advocacy — Part

- Communication 1
- Industrial Law 1
- Statistics
- Economics 1
- Financial Management 1
- Industrial Relations

Diploma and Certificate in Legal Studies — Part

- Communication 1
- Legal Principles
- Law of Contract
- Practice and Procedure 1
- Law of Torts 1
- Administrative Law 1
- Taxation Law and Practice A
- Taxation Law and Practice B
- Industrial Law 1

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MURDOCH UNIVERSITY

	AVAILABILITY
Environmental Science (B.Sc.)	Attendance requirements
Population & World Resources (B.A./B.Sc.)	Full
Diploma in Community Science (Dip. Comm. Sc.)	Full
Diploma in Environmental Science (Dip. Env. Sc.)	Attendance requirements

ENVIRONMENTAL SCIENCE

N211 Waste Treatment & Recycling
N213 Climate, Weather & Man
N214 Mapping & Cartography
N217 Air Pollution Meteorology
N218 Environmental Biology
N222 Pollutants & Toxicology
N273 Community Ecology] not available
N281 Population Ecology] after 1985
N2.. Ecology
N?.. Ecological Principles

POPULATION & WORLD RESOURCES

N212 Population, Resources & Environment

N225 Population & World Resources Project
N404 Community Science Project

OTHER COURSES

A203 Science Technology & Society
A208 Engineering Mathematics

Computer Science (1985) (B.Sc.)	Development from 1985
Mathematics (including Honours) (B.A./B.Sc.)	Full
Mineral Science (Extractive Metallurgy) (B.Sc.)	Full
Physics (B.Sc.)	Full
Diploma in Applicable Mathematics (Dip. App. Maths)	Full
Diploma in Computer Science (1985) (Dip.Comp.Sc.)	Development from 1985

SCHOOL OF MATHEMATICAL & PHYSICAL SCIENCES

M215 Applied Statistics

M261 Mathematical Methods
M263 Complex Variable
M268 Statistical Analysis
M2?? Operations Research Techniques
M273 Vector Spaces
M276 Matrix & Computational Methods

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M362 General Analysis
M365 Algebraic Structures
M367 Numerical Analysis
M369 Differential Equations

PHYSICS

M205 Measurement Science
M220 Waves
M221 Electronics
M222 Interactions & Fields
M311 Quantum Theory
M312 Solid & Surface Physics

COMPUTER SCIENCE (and Diploma in Computer Studies)

M214 Computer Science

M313 Systems Programming
M4.. Computer Studies Project

MINERAL SCIENCE

M201 Thermodynamics
M202 Properties of Matter
M234 Resources Recycling
M237 Chemistry IIA
M240 Analytical Chemistry
M256 Mineralogy
M355 Processes of Extractive Metallurgy
M357 Mineral Chemistry (Hydrometallurgy)
M358 Pyrometallurgical Processes
M254 Mineral & Energy Resources

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Bachelor of Applied Science (BIOLOGY) Part

Animal Biology 201
Animal Biology 202
Biology 101
Biology 102
Plant Biology 201
Plant Biology 202
Statistics 211

Bachelor of Applied Science (MULTIDISCIPLINARY SCIENCE) Part

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AVAILABILITY

Bachelor of Applied Science Part
(Biology)
(Chemistry)
(Mathematics)
(Multidisciplinary Science)
(Physics)

Accounting 151
Accounting 152
Biology 101
Biology 102
Chemistry 101
Economics (Micro) 151
Economics (Macro) 152
English 150
Geography 111
Geography 112
Human Biology 181
Human Biology 182
Mathematical Statistics 101
Mathematical Statistics 102
Mathematics 101
Mathematics 102
Physics 101
Physics 102
Social Science 111
Social Science 112
Statistics 121

Bachelor of Applied Science (HOME ECONOMICS) Part

Consumer Law 212
Home & Consumer Studies 212
Introductory Chemistry 151
Introductory Chemistry 152
Introductory Nutrition 151
Social Nutrition 251
Psychology 113
Psychology 114
Psychology 118

Bachelor of Applied Science (NUTRITION & FOOD SCIENCE) Part

Human Biology 181
Statistics 121

Bachelor of Applied Science (MATHEMATICS) Part

English 150
Mathematical Statistics 101
Mathematical Statistics 102
Mathematics 101
Mathematics 102
Mathematics 202
Mathematics 301

Bachelor of applied Science (CHEMISTRY) Part

Chemistry 101
Chemistry 102
Science & Society 101
Science & Society 102
Statistics 121

	AVAILABILITY
Bachelor of Applied Science (PHYSICS)	Part
Chemistry 101	
Chemistry 102	
English 150	
Mathematics 101	
Mathematics 101	
Mathematics 201	
Physics 101	
Physics 102	
Weather Forecasting 101	

TECHNICAL EXTENSION SERVICE

Diploma in Mathematics	Part
Mathematics 1F	
Qualifying Mathematics D	
Mathematics 1D	
Mathematics 2F	
Mathematics 2S	
Mathematics 3S	
Applied Mathematics 2S	
Certificate in Laboratory Practices (Biological Sciences)	Part
Certificate in Laboratory Practices (Physical Sciences)	Part
Biology 1	
Chemistry 1	
Laboratory Procedures	
Physics 1	
Laboratory Workshop	
Laboratory Techniques 2B	
Laboratory Techniques 2A	
Chemistry	

OTHER

MURDOCH UNIVERSITY

[illegible]	Full

Units	Courses (All Courses available 1984 & 1985)	Prerequisite for Programmes available externally
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	

TECHNICAL EXTENSION SERVICE

	AVAILABILITY
Certificate in Building Foremanship	Full
Building Construction 1B	
Quantities 1B	
Building Construction 2B	
Building Construction Drawing 2	
Building Organisation 1	
Supervision (Elements of)	
Certificate in Furniture Production	Part
Communication 1	
Supervision (Elements of	
Builders' Bookkeeping and Costing	
Work Study 1	